

**SYSTEM FOR ENHANCING THE TRANSMISSION SECURITY  
OF THE E-MAILS IN THE INTERNET NETWORK**

**Abstract**

System for enhancing the security of the e-mails transmitted  
5 from a sender (10) to a receiver (12) over a data transmission  
network such as Internet wherein a Message Transfer Agent (MTA)  
(14) associated with the sender is in charge of transmitting  
over the network an original e-mail sent by the sender. The MTA  
associated with the sender includes a message splitting means  
10 (16) adapted to divide the original e-mail into a plurality of  
chunks according to a predetermined algorithm and a  
predetermined list of relay MTAs (20, 22, 24) to which are  
forwarded the plurality of chunks. The system comprises a chunk  
assembly agent (28) for receiving from the relay MTAs the  
15 plurality of chunks and re-assembling them by using the  
predetermined algorithm in order to re-build the e-mail before  
sending it to the receiver.

Fig. 1